

CLAIMS

1 1. A television receiver comprising:
2 a tuner that receives a transmitted signal from an antenna;
3 a selective filter stage connected to said tuner;
4 an intermediate-frequency stage connected to said selective filter stage; and
5 at least one field-strength-detection stage that generates a field strength signal proportional to
6 the field strength of said received signal, and which generates a control signal derived from said field
7 strength signal,

8 wherein said selective filter stage implements a transfer function that is modifiable by said
9 control signal.

1 2. The television receiver of claim 1, wherein the bandwidth of said selective filter stage is
2 modified as a function of said control signal.

1 3. The television receiver of claim 1, wherein said selective filter stage is implemented as a
2 frequency trap, the slope of which is modifiable by said control signal.

1 4. The television receiver of claim 4, wherein one chrominance signal and one luminance signal
2 are contained in the received signal,

3 and wherein said frequency trap is dimensioned such that, in response to a higher field
4 strength signal, spectral components of the chrominance signal are more strongly suppressed, while
5 in response to a lower field strength signal noise signals in the spectral range of luminance and
6 chrominance signal are reduced.

1 5. The television receiver of claim 1, wherein a black-and-white signal is contained in the
2 received signal and, in response to a low field strength signal, only black-and-white signals are
3 transmitted by said selective filter stage.

1 6. The television receiver of claim 5, wherein the received signal includes a video signal, and
2 wherein
3 a video signal is contained in the video signal and, in response to a low field strength signal,
4 higher-frequency video signals are suppressed by said selective filter stage.

1 7. The television receiver of claim 1, wherein said selective filter stage is controlled such that
2 given a field strength signal above a certain threshold value there is no effect on the signal by said
3 selective filter stage.

1 8. The television receiver of claim 1, wherein in response to a degrading signal, said selective
2 filter stage adapts the filter response continually or in steps.

1 9. The television receiver of claim 1, wherein said at least one field-strength-detection stage
2 evaluates the received signal and generates said field strength signal.

1 10. The television receiver of claim 1, wherein said at least one field-strength-detection stage
2 comprises said intermediate-frequency stage, wherein said intermediate-frequency stage generates
3 the field strength signal.

1 11. A television receiver comprising:
2 a tuner that receives a transmitted signal from an antenna;
3 a first selective filter stage connected to said tuner, said selective filter stage implementing a
4 transfer function that is modifiable by one or more control signals derived from a field strength
5 signal; and
6 an intermediate-frequency stage connected to said selective filter stage and generating a first
7 control signal of said one or more control signals.

1 12. The television receiver of claim 11, wherein said first selective filter stage modifies the
2 bandwidth of the implemented transfer function based on said one or more control signals.

1 13. The television receiver of claim 1, wherein said television receiver further comprises:
2 a second selective filter stage connected to said intermediate-frequency stage, said second
3 selective filter stage being controlled by at least one of said one or more control signal.

1 14. The television receiver of claim 13, wherein at least one of said first and second selective

2 filter stages implements a frequency trap having a slope that is modifiable in response to said one or
3 more control signals.

1 15. The television receiver of claim 14, wherein one chrominance signal and one luminance
2 signal are contained in the received signal, and wherein said frequency trap is dimensioned such
3 that, in response to a higher field strength signal, spectral components of the chrominance signal are
4 more strongly suppressed, while in response to a lower field strength signal noise signals in the
5 spectral range of luminance and chrominance signal are reduced.

1 16. The television receiver of claim 13, wherein a black-and-white signal is contained in the
2 received signal and, in response to a low field strength signal, only black-and-white signals are
3 transmitted by said first and second selective filter stages.

1 17. The television receiver according to claim 13, wherein the received signal comprises a video
2 signal, and wherein, in response to a low field strength signal, higher-frequency video signals are
3 suppressed by one or more of said first and second selective filter stages.

1 18. The television receiver according to claim 13, wherein in response to a degrading signal said
2 first and second selective filter stages implement respective filter response one of either continually
3 and in increments.

1 19. The television receiver of claim 13, wherein the television receiver further comprises:
2 at least one additional signal-processing stage connected to and following said intermediate-
3 frequency stage, wherein at least one of said one or more control signals is derived from at least one
4 signal from said at least one additional signal-processing stage.

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1 20. A television receiver comprising:
2 a tuner that receives a transmitted signal from an antenna;
3 first selective filter means, connected to said tuner, for implementing a transfer function
4 modifiable in response to one or more control signals; and
5 means for generating said control signal derived from a detected field strength of the
6 received signal.

1 21. The television receiver of claim 20, wherein said transfer function comprises a bandwidth
2 modifiable in response to said one or more control signals.

1 22. The television receiver of claim 20, wherein said means for generating a control signal
2 derived from a detected field strength comprises:
3 an intermediate-frequency stage connected to said selective filter means.

1 23. The television receiver of claim 20, wherein said means for generating a control signal
2 derived from a detected field strength comprises:
3 a field strength detector connected to receive one of either an input to or an output from said
4 tuner.

- 1 24. The television receiver of claim 4, further comprising:
- 2 at least one additional selective filter means connected to the intermediate-frequency stage, said
- 3 additional selective filter means responsive to said control signal.